ELSEVIER

1 October 2001

Optics Communications 197 (2001) 515–522

OPTICS COMMUNICATIONS

www.elsevier.com/locate/optcom

Author index to volume 197

Adachi, S., see Djurišić, A.B. 197 (2001) 355
Afifi, M., K. Nassim and S. Rachafi, Five-frame phase-shifting algorithm insensitive to diode laser power variation 197 (2001) 37
Ahles, M., see Motzek, K. 197 (2001) 161
Ahn, J.T., M.-Y. Jeon and K.H. Kim, Two-stage reflective-type erbium-doped fiber amplifier with enhanced noise figure characteristics 197 (2001) 121
Ahn, S.-W. and S.-Y. Shin, Grating-assisted codirectional coupler filter using electro-optic and passive polymer waveguides 197 (2001) 289
Aleshkevich, V., Y. Kartashov and V. Vysloukh, Propagation and interaction of single and incoherently coupled nondiffracting beams in photorefractive medium with purely diffusion nonlinearity 197 (2001) 445
An, J.-W., N. Kim and K.-W. Lee, Volume holographic wavelength demultiplexer based on rotation multiplexing in the 90° geometry 197 (2001) 247
Anglos, D., see Tzortzakis, S. 197 (2001) 131
Ángel García-Botella, see Quiroga, J.A. 197 (2001) 43
Apolinar Iribe, A., see Korneev, N. 197 (2001) 209
Arlt, J., V. Garces-Chavez, W. Sibbett and K. Dholakia, Optical micromanipulation using a Bessel light beam 197 (2001) 239
Aubert, H., see Saleh, A.-S. 197 (2001) 255

Baillargeon, J.N., see Ganser, H. 197 (2001) 127
Barchiesi, D., see Salvi, J. 197 (2001) 267
Basurto Pensado, M.A., see Korneev, N. 197 (2001) 209
Belić, M.R., see Motzek, K. 197 (2001) 161
Berry, M., C. Storm and W. van Saarloos, Theory of unstable laser modes: edge waves and fractality 197 (2001) 393
Bouchal, Z., Composition of the angular spectrum of the pseudo-nondiffracting beams 197 (2001) 23
Boulon, G., see Mouras, R. 197 (2001) 439
Bourson, P., see Mouras, R. 197 (2001) 439
Boyland, A.J., see Eason, R.W. 197 (2001) 201
Boyland, A.J., S. Mailis, J.M. Hendricks, P.G.R. Smith and R.W. Eason, Electro-optically controlled beam switching via total internal reflection at a domain-engineered interface in $LiNbO_3$ 197 (2001) 193

PII: S0030-4018(01)01518-8

Calì, C., R. Macaluso and M. Mosca, Effects of the process conditions on the plume of a laser-irradiated indium–tin-oxide target 197 (2001) 341
Capasso, F., see Ganser, H. 197 (2001) 127
Chan, K.C., see Quan, C. 197 (2001) 279
Chan, W.K., see Djurišić, A.B. 197 (2001) 355
Chen, G.F., see Liu, H.J. 197 (2001) 507
Chen, H.-S., see Chiang, Y.-J. 197 (2001) 327
Chiang, Y.-J., L. Wang, W.-F. Liu, H.-S. Chen, C.-W. Hsu and C.-C. Yang, Temperature-insensitive linear strain measurement using two fiber Bragg gratings in a power detection scheme 197 (2001) 327
Chiron, A., see Tzortzakis, S. 197 (2001) 131
Cho, A.Y., see Ganser, H. 197 (2001) 127
Courjon, D., see Salvi, J. 197 (2001) 267

Darmanyan, S.A., C. Knöll and F. Lederer, Pulse train in transmission lines with semiconductor amplifiers – an analytical study 197 (2001) 61
Das, M. and K. Thyagarajan, Wavelength-division multiplexing isolation filter using concatenated chirped long period gratings 197 (2001) 67
Deng, P., see Dong, J. 197 (2001) 413
Denz, C., see Motzek, K. 197 (2001) 161
Dholakia, K., see Arlt, J. 197 (2001) 239
Diels, J.-C., see Rambo, P. 197 (2001) 145
Djurišić, A.B., W.L. Guo, E.H. Li, L.S.M. Lam, W.K. Chan, S. Adachi, Z.T. Liu and H.S. Kwok, Optical properties of doped polycarbonate layers 197 (2001) 355
Dong, J., P. Deng, F. Gan, Y. Urata, R. Hua, S. Wada and H. Tashiro, Highly doped Nd:YAG crystal used for microchip lasers 197 (2001) 413
Dorenbos, P., see van der Kolk, E. 197 (2001) 317
Driben, R. and B.A. Malomed, Suppression of crosstalk between solitons in a multi-channel split-step system 197 (2001) 481
Drouard, E., see Escoubas, L. 197 (2001) 309
Dubinskii, M.A., see Ter-Mikirtychev, V.V. 197 (2001) 403
Duxbury, G., see Normand, E. 197 (2001) 115

Eason, R.W., A.J. Boyland, S. Mailis and P.G.R. Smith, Electro-optically controlled beam deflection for grazing incidence geometry on a domain-engineered interface in $LiNbO_3$ 197 (2001) 201
El-Orany, F.A.A. and J. Peřina, Phase properties of superposition of pair-coherent states 197 (2001) 363
Escoubas, L., E. Drouard and F. Flory, Designing waveguide filters with optical thin-film computational tools 197 (2001) 309

Fan, C., see Zhang, L. 197 (2001) 459
Flory, F., see Escoubas, L. 197 (2001) 309
Fontana, M.D., see Mouras, R. 197 (2001) 439
Franco, M., see Tzortzakis, S. 197 (2001) 131

Frech, B., see Ganser, H. 197 (2001) 127
Friberg, A.T., see Östlund, P. 197 (2001) 1
Fromzel, V.A., see Ter-Mikirtychev, V.V. 197 (2001) 403

Gan, F., see Dong, J. 197 (2001) 413
Gan, F.X., see Gu, Y.Z. 197 (2001) 501
Ganser, H., B. Frech, A. Jentsch, M. Mürtz, C. Gmachl, F. Capasso, D.L. Sivco, J.N. Baillargeon, A.L. Hutchinson, A.Y. Cho and W. Urban, Investigation of the spectral width of quantum cascade laser emission near 5.2 μm by a heterodyne experiment 197 (2001) 127
Gao, Y., see Zhang, J. 197 (2001) 385
Garces-Chavez, V., see Arlt, J. 197 (2001) 239
Garcia, W., J. Palero and C. Saloma, Temporal coherence control of Nd:YAG pumped Raman shifter 197 (2001) 109
Glückstad, J. and P.C. Mogensen, Reverse phase contrast for the generation of phase-only spatial light modulation 197 (2001) 261
Gmachl, C., see Ganser, H. 197 (2001) 127
Gong, Q., see Wang, X. 197 (2001) 83
Gu, Y.Z., F.X. Gan, S.Q. Wang and H.J. Xu, Investigation of optical nonlinearities of azo nickel chelate compound by the Z-scan technique 197 (2001) 501
Guo, S., see Liu, X. 197 (2001) 431
Guo, W.L., see Djurišić, A.B. 197 (2001) 355

Hald, J., Second harmonic generation in an external ring cavity with a Brewster-cut nonlinear crystal: theoretical considerations 197 (2001) 169
Hendricks, J.M., see Boyland, A.J. 197 (2001) 193
Hou, L., see Liu, X. 197 (2001) 431
Hsu, C.-W., see Chiang, Y.-J. 197 (2001) 327
Hu, X., see Zhou, K. 197 (2001) 295
Hua, R., see Dong, J. 197 (2001) 413
Huang, Y., see Wang, X. 197 (2001) 83
Huang, C., see Wang, X. 197 (2001) 83
Hutchinson, A.L., see Ganser, H. 197 (2001) 127

Inoue, K. and T. Mukai, Signal-masked optical communication utilizing amplified spontaneous emission of an optical amplifier 197 (2001) 53

Jaggard, D.L., see Saleh, A.-S. 197 (2001) 255
Jarutis, V., see Stabinis, A. 197 (2001) 419
Jentsch, A., see Ganser, H. 197 (2001) 127
Jeon, M.-Y., see Ahn, J.T. 197 (2001) 121
José Antonio Gómez-Pedrero, see Quiroga, J.A. 197 (2001) 43

Kaiser, F., see Motzek, K. 197 (2001) 161

Karasawa, N., R. Morita, H. Shigekawa and M. Yamashita, Characteristics of the oscillatory spectrum due to only induced-phase modulation in an argon-filled hollow waveguide accompanied with intense self-phase modulation 197 (2001) 475
Karolczak, J., see Ziolek, M. 197 (2001) 467
Kartashov, Y., see Aleshkevich, V. 197 (2001) 445
Kim, N., see An, J.-W. 197)2001) 247
Kim, K.H., see Ahn, J.T. 197 (2001) 121
Klaus, M. and J.K. Shaw, Influence of pulse shape and frequency chirp on stability of optical solitons 197 (2001) 491
Knippels, G.M.H., see Xu, J. 197 (2001) 379
Knöll, C., see Darmanyan, S.A. 197 (2001) 61
Korneev, N., A. Apolinar Iribe, V.A. Vysloukh and M.A. Basurto Pensado, Self-compression of 1 + 1D cnoidal wave in photorefractive BTO crystal: an experimental evidence 197 (2001) 209
Kubicki, J., see Ziolek, M. 197 (2001) 467
Kurzynowski, P., Senarmont compensator for elliptically birefringent media 197 (2001) 235
Kutay, M.A., see Yetik, İ.Ş. 197 (2001) 275
Kwok, H.S., see Djurišić, A.B. 197 (2001) 355

Lai, B., see Shastri, S.D. 197 (2001) 9
Lakhtakia, A., see Mackay, T.G. 197 (2001) 89
Lam, L.S.M., see Djurišić, A.B. 197 (2001) 355
Lamouroux, B., see Tzortzakis, S. 197 (2001) 131
Langford, N., see Normand, E. 197 (2001) 115
Larichev, A.V., see Simonov, A.N. 197 (2001) 175
Lederer, F., see Darmanyan, S.A. 197 (2001) 61
Lee, K.-W., see An, J.-W 197 (2001) 247
Li, H. and L. Wu, Generation of superpositions of squeezed states via Raman interaction 197 (2001) 97
Li, E.H., see Djurišić, A.B. 197 (2001) 355
Liu, H.J., G.F. Chen, W. Zhao, Y.S. Wang, T. Wang and S.H. Zhao, Phase matching analysis of noncollinear optical parametric process in nonlinear anisotropic crystals 197 (2001) 507
Liu, X., S. Guo, H. Wang and L. Hou, Theoretical study on the closed-aperture *Z*-scan curves in the materials with nonlinear refraction and strong nonlinear absorption 197 (2001) 431
Liu, H., see Zhou, K. 197 (2001) 295
Liu, W.-F., see Chiang, Y.-J. 197 (2001) 327
Liu, L., see Liu, D. 197 (2001) 187
Liu, C., see Wang, X. 197 (2001) 83
Liu, D., L. Liu, Y. Liu, C. Zhou and L. Xu, Accumulative recording of nonvolatile photorefractive holograms in $LiNbO_3$:Fe:Mn crystals 197 (2001) 187
Liu, Z.T., see Djurišić, A.B. 197 (2001) 355
Liu, Y., see Liu, D. 197 (2001) 187
Lorenc, M., see Ziolek, M. 197 (2001) 467

Macaluso, R., see Calì, C. 197 (2001) 341
Maciejewski, A., see Ziolek, M. 197 (2001) 467

Mackay, T.G., A. Lakhtakia and W.S. Weiglhofer, Homogenisation of similarly oriented, metallic, ellipsoidal inclusions using the bilocally approximated strong-property-fluctuation theory 197 (2001) 89
Mailis, S., see Eason, R.W. 197 (2001) 201
Mailis, S., see Boyland, A.J. 197 (2001) 193
Malomed, B.A., see Driben, R. 197 (2001) 481
Maser, J.M., see Shastri, S.D. 197 (2001) 9
Mogensen, P.C., see Glückstad, J. 197 (2001) 261
Morita, R., see Karasawa, N. 197 (2001) 475
Morita, R., M. Yamashita, A. Suguro and H. Shigekawa, Femtosecond-time-resolved highly selective molecular-vibration excitation using a novel vibrationally synchronized pumping technique with frequency difference resonance 197 (2001) 73
Mosca, M., see Calì, C. 197 (2001) 341
Motzek, K., A. Stepken, F. Kaiser, M.R. Belić, M. Ahles, C. Weilnau and C. Denz, Dipole-mode vector solitons in anisotropic photorefractive media 197 (2001) 161
Mouras, R., P. Bourson, M.D. Fontana and G. Boulon, Raman spectroscopy as a probe of the rare-earth ions location in $LiNbO_3$ crystals 197 (2001) 439
Moustaizis, S.D., see Tzortzakis, S. 197 (2001) 131
Mukai, T., see Inoue, K. 197 (2001) 53
Mürtz, M., see Ganser, H. 197 (2001) 127
Mysyrowicz, A., see Tzortzakis, S. 197 (2001) 131

Nasalski, W., Three-dimensional beam reflection at dielectric interfaces 197 (2001) 217
Naskrecki, R., see Ziolek, M. 197 (2001) 467
Nassim, K., see Afifi, M. 197 (2001) 37
Normand, E., G. Duxbury and N. Langford, Characterisation of the spectral behaviour of pulsed quantum cascade lasers using a high resolution Fourier transform infrared spectrometer 197 (2001) 115

Oepts, D., see Xu, J. 197 (2001) 379
Orlov, S., see Stabinis, A. 197 (2001) 419
Östlund, P. and A.T. Friberg, Radiometry and far-zone polarization for partially coherent electromagnetic planar sources 197 (2001) 1
Ozaktas, H.M., see Yetik, İ.Ş. 197 (2001) 275

Palero, J., see Garcia, W. 197 (2001) 109
Peřina, J., see El-Orany, F.A.A. 197 (2001) 363
Prade, B., see Tzortzakis, S. 197 (2001) 131

Quan, C., C.J. Tay, S.H. Wang, H.M. Shang and K.C. Chan, Study on deformation of a microphone membrane using multiple-wavelength interferometry 197 (2001) 279
Quiroga, J.A., José Antonio Gómez-Pedrero and Ángel García-Botella, Algorithm for fringe pattern normalization 197 (2001) 43

Rachafi, S., see Afifi, M. 197 (2001) 37
Rambo, P., J. Schwarz and J.-C. Diels, Interferometry with two-dimensional spatial and high temporal resolution 197 (2001) 145
Ravikanth, J., see Shah, D.D. 197 (2001) 301
Reyes, J.A., see Rodríguez, R.F. 197 (2001) 103
Rodríguez, R.F. and J.A. Reyes, Lossy effects in a nonlinear nematic optical fiber 197 (2001) 103

Saleh, A.-S., H. Aubert and D.L. Jaggard, Lacunarity of multi-gap fractal superlattices using wavelet analysis 197 (2001) 255
Saloma, C., see Garcia, W. 197 (2001) 109
Salvi, J., D. Barchiesi and D. Courjon, Use of a resonant optical cavity to increase the spectral density of near-field optical images 197 (2001) 267
Schwarz, J., see Rambo, P. 197 (2001) 145
Shah, D.D., J. Ravikanth and R. Vijaya, Optimization of peak transmittivity in a non-linear fiber loop mirror—an accurate analysis 197 (2001) 301
Shang, H.M., see Quan, C. 197 (2001) 279
Shastri, S.D., J.M. Maser, B. Lai and J. Tys, Microfocusing of 50 keV undulator radiation with two stacked zone plates 197 (2001) 9
Shaw, J.K., see Klaus, M. 197 (2001) 491
She, S., L. Wu and J. Wang, Simple algebraic recursion formulas for calculation of propagation characteristics of graded-index waveguides 197 (2001) 331
Shibaev, V.P., see Simonov, A.N. 197 (2001) 175
Shigekawa, H., see Karasawa, N. 197 (2001) 475
Shigekawa, H., see Morita, R. 197 (2001) 73
Shin, S.-Y., see Ahn, S.-W. 197 (2001) 289
Sibbett, W., see Arlt, J. 197 (2001) 239
Simonov, A.N., A.V. Larichev, V.P. Shibaev and A.I. Stakhanov, High-quality correction of wavefront distortions using low-power phase conjugation in azo dye containing LC polymer 197 (2001) 175
Sivco, D.L., see Ganser, H. 197 (2001) 127
Smith, P.G.R., see Boyland, A.J. 197 (2001) 193
Smith, P.G.R., see Eason, R.W. 197 (2001) 201
Stabinis, A., S. Orlov and V. Jarutis, Interaction of Bessel optical vortices in quadratic nonlinear medium 197 (2001) 419
Stakhanov, A.I., see Simonov, A.N. 197 (2001) 175
Stepken, A., see Motzek, K. 197 (2001) 161
Storm, C., see Berry, M. 197 (2001) 393
Suguro, A., see Morita, R. 197 (2001) 73

Tashiro, H., see Dong, J. 197 (2001) 413
Tay, C.J., see Quan, C. 197 (2001) 279
Ter-Mikirtychev, V.V., M.A. Dubinskii and V.A. Fromzel, Q-switched, TEM_{00}-mode, diode-pumped Yb^{3+}:YAG laser with extended tunability 197 (2001) 403
Thyagarajan, K., see Das, M. 197 (2001) 67
Tys, J., see Shastri, S.D. 197 (2001) 9

Tzortzakis, S., B. Lamouroux, A. Chiron, S.D. Moustaizis, D. Anglos, M. Franco, B. Prade and A. Mysyrowicz, Femtosecond and picosecond ultraviolet laser filaments in air: experiments and simulations 197 (2001) 131

Urata, Y., see Dong, J. 197 (2001) 413
Urban, W., see Ganser, H. 197 (2001) 127

van der Kolk, E., P. Dorenbos and C.W.E. van Eijk, Vacuum ultraviolet excitation and quantum splitting of Pr^{3+} in $LaZrF_7$ and α-$LaZr_3F_{15}$ 197 (2001) 317
van der Meer, A.F.G., see Xu, J. 197 (2001) 379
van Eijk, C.W.E., see van der Kolk, E. 197 (2001) 317
van Saarloos, W., see Berry, M. 197 (2001) 393
Vatnik, S.M., Gain and laser operation of 1.1%Nd:YAG crystal fibers 197 (2001) 375
Vijaya, R., see Shah, D.D. 197 (2001) 301
Vysloukh, V., see Aleshkevich, V. 197 (2001) 445
Vysloukh, V.A., see Korneev, N. 197 (2001) 209

Wada, S., see Dong, J. 197 (2001) 413
Wang, L., see Chiang, Y.-J. 197 (2001) 327
Wang, Y.S., see Liu, H.J. 197 (2001) 507
Wang, S., see Zhang, L. 197 (2001) 459
Wang, S.H., see Quan, C. 197 (2001) 279
Wang, J., see She, S. 197 (2001) 331
Wang, S.Q., see Gu, Y.Z. 197 (2001) 501
Wang, H., see Liu, X. 197 (2001) 431
Wang, T., see Liu, H.J. 197 (2001) 507
Wang, X., C. Liu, Q. Gong, Y. Huang and C. Huang, Anomalous heavy atom effect on optical limiting property of homoleptic double-decked sandwich-type lanthanide diphthalocyanines 197 (2001) 83
Weiglhofer, W.S., see Mackay, T.G. 197 (2001) 89
Weilnau, C., see Motzek, K. 197 (2001) 161
Wu, L., see She, S. 197 (2001) 331
Wu, L., see Li, H. 197 (2001) 97

Xu, H.J., see Gu, Y.Z. 197 (2001) 501
Xu, J., G.M.H. Knippels, D. Oepts and A.F.G. van der Meer A far-infrared broadband (8.5–37 μm) autocorrelator with sub-picosecond time resolution based on cadmium telluride 197 (2001) 379
Xu, L., see Liu, D. 197 (2001) 187
Xu, Q., see Zhang, J. 197 (2001) 385

Yamashita, M., see Karasawa, N. 197 (2001) 475
Yamashita, M., see Morita, R. 197 (2001) 73
Yang, C.-C., see Chiang, Y.-J. 197 (2001) 327

Yao, M., see Zhang, J. 197 (2001) 385
Yetik, İ.Ş., M.A. Kutay and H.M. Ozaktas, Image representation and compression with the fractional Fourier transform 197 (2001) 275

Zhang, W.Q., The design principle of crystal components 197 (2001) 15
Zhang, L., S. Wang and C. Fan, Transient analysis in discrete fiber Raman amplifiers 197 (2001) 459
Zhang, J., M. Yao, H. Zhang, Q. Xu and Y. Gao, 10-GHz actively mode-locked pulse generation employing a semiconductor optical amplifier and an electroabsorption modulator in a fiber ring 197 (2001) 385
Zhang, H., see Zhang, J. 197 (2001) 385
Zhao, W., see Liu, H.J. 197 (2001) 507
Zhao, S.H., see Liu, H.J. 197 (2001) 507
Zhou, K., H. Liu and X. Hu, Tuning the resonant wavelength of long period fiber gratings by etching the fiber's cladding 197 (2001) 295
Zhou, C., see Liu, D. 197 (2001) 187
Ziolek, M., R. Naskrecki, M. Lorenc, J. Karolczak, J. Kubicki and A. Maciejewski, The influence of the excitation geometry on the temporal resolution in femtosecond pump–probe experiments 197 (2001) 467

ELSEVIER

1 October 2001

Optics Communications 197 (2001) 523–527

OPTICS COMMUNICATIONS

www.elsevier.com/locate/optcom

Subject index to volume 197

Editorial Guidelines and Instructions to Authors v

Propagation and scattering

P. Östlund and A.T. Friberg, Radiometry and far-zone polarization for partially coherent electromagnetic planar sources 1

S.D. Shastri, J.M. Maser, B. Lai and J. Tys, Microfocusing of 50 keV undulator radiation with two stacked zone plates 9

W.Q. Zhang, The design principle of crystal components 15

Z. Bouchal, Composition of the angular spectrum of the pseudo-nondiffracting beams 23

W. Nasalski, Three-dimensional beam reflection at dielectric interfaces 217

P. Kurzynowski, Senarmont compensator for elliptically birefringent media 235

J. Arlt, V. Garces-Chavez, W. Sibbett and K. Dholakia, Optical micromanipulation using a Bessel light beam 239

Optical information, image formation and analysis, optical computing

M. Afifi, K. Nassim and S. Rachafi, Five-frame phase-shifting algorithm insensitive to diode laser power variation 37

J.A. Quiroga, José Antonio Gómez-Pedrero and Ángel García-Botella, Algorithm for fringe pattern normalization 43

J.-W. An, N. Kim and K.-W. Lee, Volume holographic wavelength demultiplexer based on rotation multiplexing in the 90° geometry 247

A.-S. Saleh, H. Aubert and D.L. Jaggard, Lacunarity of multi-gap fractal superlattices using wavelet analysis 255

J. Glückstad and P.C. Mogensen, Reverse phase contrast for the generation of phase-only spatial light modulation 261

J. Salvi, D. Barchiesi and D. Courjon, Use of a resonant optical cavity to increase the spectral density of near-field optical images 267

PII: S0030-4018(01)01519-x

İ.Ş. Yetik, M.A. Kutay and H.M. Ozaktas, Image representation and compression with the fractional Fourier transform 275

C. Quan, C.J. Tay, S.H. Wang, H.M. Shang and K.C. Chan, Study on deformation of a microphone membrane using multiple-wavelength interferometry 279

Optical communications

K. Inoue and T. Mukai, Signal-masked optical communication utilizing amplified spontaneous emission of an optical amplifier 53

S.A. Darmanyan, C. Knöll and F. Lederer, Pulse train in transmission lines with semiconductor amplifiers – an analytical study 61

M. Das and K. Thyagarajan, Wavelength-division multiplexing isolation filter using concatenated chirped long period gratings 67

Atomic and molecular physics

R. Morita, M. Yamashita, A. Suguro and H. Shigekawa, Femtosecond-time-resolved highly selective molecular-vibration excitation using a novel vibrationally synchronized pumping technique with frequency difference resonance 73

S.-W. Ahn and S.-Y. Shin, Grating-assisted codirectional coupler filter using electro-optic and passive polymer waveguides 289

K. Zhou, H. Liu and X. Hu, Tuning the resonant wavelength of long period fiber gratings by etching the fiber's cladding 295

D.D. Shah, J. Ravikanth and R. Vijaya, Optimization of peak transmittivity in a non-linear fiber loop mirror—an accurate analysis 301

L. Escoubas, E. Drouard and F. Flory, Designing waveguide filters with optical thin-film computational tools 309

E. van der Kolk, P. Dorenbos and C.W.E. van Eijk, Vacuum ultraviolet excitation and quantum splitting of Pr^{3+} in $LaZrF_7$ and α-$LaZr_3F_{15}$ 317

Y.-J. Chiang, L. Wang, W.-F. Liu, H.-S. Chen, C.-W. Hsu and C.-C. Yang, Temperature-insensitive linear strain measurement using two fiber Bragg gratings in a power detection scheme 327

S. She, L. Wu and J. Wang, Simple algebraic recursion formulas for calculation of propagation characteristics of graded-index waveguides 331

Condensed matter

X. Wang, C. Liu, Q. Gong, Y. Huang and C. Huang, Anomalous heavy atom effect on optical limiting property of homoleptic double-decked sandwich-type lanthanide diphthalocyanines 83

THE PAPER AND INK USED IN THE ORIGINAL PUBLICATION MAY AFFECT THE QUALITY OF THE MICROFORM EDITION.

T.G. Mackay, A. Lakhtakia and W.S. Weiglhofer, Homogenisation of similarly oriented, metallic, ellipsoidal inclusions using the bilocally approximated strong-property-fluctuation theory 89

Quantum optics

H. Li and L. Wu, Generation of superpositions of squeezed states via Raman interaction 97

R.F. Rodríguez and J.A. Reyes, Lossy effects in a nonlinear nematic optical fiber 103

C. Calì, R. Macaluso and M. Mosca, Effects of the process conditions on the plume of a laser-irradiated indium–tin-oxide target 341

A.B. Djurišić, W.L. Guo, E.H. Li, L.S.M. Lam, W.K. Chan, S. Adachi, Z.T. Liu and H.S. Kwok, Optical properties of doped polycarbonate layers 355

Laser physics and laser sources

W. Garcia, J. Palero and C. Saloma, Temporal coherence control of Nd:YAG pumped Raman shifter 109

E. Normand, G. Duxbury and N. Langford, Characterisation of the spectral behaviour of pulsed quantum cascade lasers using a high resolution Fourier transform infrared spectrometer 115

J.T. Ahn, M.-Y. Jeon and K.H. Kim, Two-stage reflective-type erbium-doped fiber amplifier with enhanced noise figure characteristics 121

H. Ganser, B. Frech, A. Jentsch, M. Mürtz, C. Gmachl, F. Capasso, D.L. Sivco, J.N. Baillargeon, A.L. Hutchinson, A.Y. Cho and W. Urban, Investigation of the spectral width of quantum cascade laser emission near 5.2 μm by a heterodyne experiment 127

S. Tzortzakis, B. Lamouroux, A. Chiron, S.D. Moustaizis, D. Anglos, M. Franco, B. Prade and A. Mysyrowicz, Femtosecond and picosecond ultraviolet laser filaments in air: experiments and simulations 131

F.A.A. El-Orany and J. Peřina, Phase properties of superposition of pair-coherent states 363

S.M. Vatnik, Gain and laser operation of 1.1%Nd:YAG crystal fibers 375

J. Xu, G.M.H. Knippels, D. Oepts and A.F.G. van der Meer, A far-infrared broadband (8.5–37 μm) autocorrelator with sub-picosecond time resolution based on cadmium telluride 379

J. Zhang, M. Yao, H. Zhang, Q. Xu and Y. Gao, 10-GHz actively mode-locked pulse generation employing a semiconductor optical amplifier and an electroabsorption modulator in a fiber ring 385

M. Berry, C. Storm and W. van Saarloos, Theory of unstable laser modes: edge waves and fractality 393

V.V. Ter-Mikirtychev, M.A. Dubinskii and V.A. Fromzel, Q-switched, TEM_{00}-mode, diode-pumped Yb^{3+}:YAG laser with extended tunability 403

J. Dong, P. Deng, F. Gan, Y. Urata, R. Hua, S. Wada and H. Tashiro, Highly doped Nd:YAG crystal used for microchip lasers 413

Nonlinear optics

P. Rambo, J. Schwarz and J.-C. Diels, Interferometry with two-dimensional spatial and high temporal resolution 145

K. Motzek, A. Stepken, F. Kaiser, M.R. Belić, M. Ahles, C. Weilnau and C. Denz, Dipole-mode vector solitons in anisotropic photorefractive media 161

J. Hald, Second harmonic generation in an external ring cavity with a Brewster-cut nonlinear crystal: theoretical considerations 169

A.N. Simonov, A.V. Larichev, V.P. Shibaev and A.I. Stakhanov, High-quality correction of wavefront distortions using low-power phase conjugation in azo dye containing LC polymer 175

D. Liu, L. Liu, Y. Liu, C. Zhou and L. Xu, Accumulative recording of nonvolatile photorefractive holograms in $LiNbO_3$:Fe:Mn crystals 187

A.J. Boyland, S. Mailis, J.M. Hendricks, P.G.R. Smith and R.W. Eason, Electro-optically controlled beam switching via total internal reflection at a domain-engineered interface in $LiNbO_3$ 193

R.W. Eason, A.J. Boyland, S. Mailis and P.G.R. Smith, Electro-optically controlled beam deflection for grazing incidence geometry on a domain-engineered interface in $LiNbO_3$ 201

N. Korneev, A. Apolinar Iribe, V.A. Vysloukh and M.A. Basurto Pensado, Self-compression of $1+1$D cnoidal wave in photorefractive BTO crystal: an experimental evidence 209

A. Stabinis, S. Orlov and V. Jarutis, Interaction of Bessel optical vortices in quadratic nonlinear medium 419

X. Liu, S. Guo, H. Wang and L. Hou, Theoretical study on the closed-aperture Z-scan curves in the materials with nonlinear refraction and strong nonlinear absorption 431

R. Mouras, P. Bourson, M.D. Fontana and G. Boulon, Raman spectroscopy as a probe of the rare-earth ions location in $LiNbO_3$ crystals 439

V. Aleshkevich, Y. Kartashov and V. Vysloukh, Propagation and interaction of single and incoherently coupled nondiffracting beams in photorefractive medium with purely diffusion nonlinearity 445

L. Zhang, S. Wang and C. Fan, Transient analysis in discrete fiber Raman amplifiers 459

M. Ziolek, R. Naskrecki, M. Lorenc, J. Karolczak, J. Kubicki and A. Maciejewski, The influence of the excitation geometry on the temporal resolution in femtosecond pump–probe experiments 467

N. Karasawa, R. Morita, H. Shigekawa and M. Yamashita, Characteristics of the oscillatory spectrum due to only induced-phase modulation in an argon-filled hollow waveguide accompanied with intense self-phase modulation 475

R. Driben and B.A. Malomed, Suppression of crosstalk between solitons in a multi-channel split-step system 481

M. Klaus and J.K. Shaw, Influence of pulse shape and frequency chirp on stability of optical solitons 491

Y.Z. Gu, F.X. Gan, S.Q. Wang and H.J. Xu, Investigation of optical nonlinearities of azo nickel chelate compound by the *Z*-scan technique 501

H.J. Liu, G.F. Chen, W. Zhao, Y.S. Wang, T. Wang and S.H. Zhao, Phase matching analysis of noncollinear optical parametric process in nonlinear anisotropic crystals 507